



(12) **United States Patent**  
**Allende**

(10) **Patent No.:** **US 9,410,277 B2**  
(45) **Date of Patent:** **Aug. 9, 2016**

(54) **APPARATUS FOR USE IN LAUNDERING  
GARMENTS HAVING CUPS AND METHODS  
THEREFOR**

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(\*) Notice: Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
U.S.C. 154(b) by 37 days.

(21) Appl. No.: **14/261,116**

(22) Filed: **Apr. 24, 2014**

(65) **Prior Publication Data**  
US 2014/0230158 A1 Aug. 21, 2014

**Related U.S. Application Data**  
(63) Continuation-in-part of application No. 13/657,493,  
filed on Oct. 22, 2012, now Pat. No. 9,051,682.

(51) **Int. Cl.**  
**D06F 95/00** (2006.01)  
**D06C 15/00** (2006.01)  
(52) **U.S. Cl.**  
CPC ..... **D06C 15/00** (2013.01); **D06F 95/008**  
(2013.01)

(58) **Field of Classification Search**  
CPC ..... **D06F 95/008**  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

3,769,819 A	11/1973	Contreras	
5,556,013 A	9/1996	Mayer	
5,829,083 A *	11/1998	Sutton	8/150
6,234,368 B1	5/2001	DesForges et al.	
6,742,683 B1	6/2004	Phan	
2008/0099518 A1	5/2008	Radtke et al.	

**FOREIGN PATENT DOCUMENTS**

JP 2000-342890 A 12/2000

**OTHER PUBLICATIONS**

International Application No. PCT/US2013/066086, International  
Search Report & Written Opinion, 12 pages, Feb. 3, 2014.

\* cited by examiner

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(57) **ABSTRACT**

An apparatus for use in laundering a garment having cups comprising a flexible panel, a pair of cup supports attached to the flexible panel, and a pair of retainer rings attached to the cup supports to hold each cup of the garment against a corresponding cup support. Each cup support comprises a convex member. Each cup support may include a plurality of apertures formed through the convex member. Each cup may further include a plurality of protrusions to space the cups of the garment away from the convex member. The apparatus includes a water permeable bag extending around the flexible panel. In this case, the flexible panel may be attached to the water permeable bag.

**9 Claims, 10 Drawing Sheets**

